The College of New Jersey
Office of Records & Registration
P.O. Box 7718, Ewing, NJ 08628-0718
609-771-2141

INDEPENDENT STUDY OR MENTORED RESEARCH
ENROLLMENT FORM

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This Independent Study Enrollment form must be submitted to the Office of Records and Registration at the time of registration. **Registration will not be permitted if the form is incomplete or signatures are missing.**

Do not use this form to establish a course to be taught on TBA basis. **Independent study is not to be substituted for a regular course.**

SEMESTER: Fall ___ Spring ___ Summer ___ Year: _______

COURSE ID: ___________ SECTION ID: ___________ (for Records & Registration only)

INSTRUCTOR: ___________ DEPARTMENT ___________

NUMBER OF UNITS: _____ (Undergraduate – not to exceed 1.5 Units) (Graduate – not to exceed 9 credits)

GPA: _______ (Undergraduate – must be 2.5 or greater, Graduate – 3.0 or greater)

UNDERGRADUATE ONLY: TOTAL EARNED COURSE UNITS: _______ (Undergraduate -- must have completed at least 14 Units – At least 3.75 units must be from TCNJ)

INDEPENDENT STUDY SUMMARY PROPOSAL: (Full proposal documenting course of study must be filed with the Instructor only)

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Independent Study Counts as: ___ In-major Requirement for __________________________ requirement
___ General Education for __________________________ requirement
___ Elective Credit

Please sign and date where indicated. All signatures must be completed before registration will be processed:

STUDENT: ___________________________ DATE: _______

INSTRUCTOR: ___________________________ DATE: _______

DEPARTMENT CHAIR (or Designee): ___________________________ DATE: _______

DEAN (or Designee): ___________________________ DATE: _______

Revised 02/10/11
THE COLLEGE OF NEW JERSEY
DEPARTMENT OF PHYSICS
Project Proposal for PHY 391 - Independent Study

NAME: ____________________________ PAWS ID: _______________________

Fall, Spring, Summer 20_______ GPA: __________

MAJOR: _________________________ JR/SR LOCAL PHONE # _______________

TOTAL COURSE LOAD (INCLUDING IND RES) _________ COURSE UNITS

PHYSICS DEPARTMENT GUIDELINES:
- At the conclusion of the Independent Research, all students will submit a written report and give an oral or poster presentation.
- Students must meet with their faculty mentor at least once a week.
- A minimum of twelve hours of effort per week (per course unit) is expected for successful completion of the Independent Research.

See reverse side for the TCNJ Statement of Independent Research Criteria.

1. State the specific problems, questions, or goals you intend to pursue in this study.

2. Describe the procedures you intend to use.

THIS APPLICATION IS FOR _________ COURSE UNITS OF CREDIT.

Student Signature ____________________________ DATE Faculty Supervisor ____________

Department Chairperson Approval _______________ DATE

REV 02/10/11
I. Basic Course Information

PHY 391 is an upper level course in the physics curriculum open to all students in their Junior/Senior year with at least a 2.5 GPA overall. To register for this course students must obtain permission from a faculty mentor and the Chairperson of the Physics Department. Independent Study in Physics experiences are expected to introduce the student to advanced topics in physics or related fields under the supervision of a faculty member.

A faculty mentor and the student will agree upon the subject matter. The study will involve readings, laboratory or field analysis, and/or complex calculations beyond what is covered in a typical lecture course.

II. Learning Goals

1. A deeper understanding of physics and related fields topics.
2. To enhance a student’s ability to conduct literature searches.

III. Students Assessment

Students will be continuously assessed, by the faculty mentor, based on their weekly progress. Furthermore, weekly meetings between the student and the faculty mentor will insure that a high level learning experience will be the outcome of the experience. At the end of the semester students must present the results of their study to the faculty sponsor. This could include computer programs or solutions to complex problems.

IV. Learning Activities

The learning activities will be decided by the faculty mentor and will be specific to each experience. Examples of these activities include:

1. Searching the library and the internet for information of specific topics.
2. Solving complex problems using techniques learned in various courses.
3. Analyzing the veracity of the information obtained on internet sites.
4. Writing a data analysis or computer simulation program.
5. Laboratory or field analysis of specific topics.